

IN THE CLAIMS

Please amended the claims as shown on the attached sheets.

1. (original) A process for the catalytic hydrogenation of an aliphatically unsaturated group in an organic compound in the presence of a catalyst whose preparation has involved precipitation of catalytically active components onto monoclinic, tetragonal or cubic zirconium dioxide.
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2. (currently amended) A process as claimed in claim 1 ~~the preceding claims~~, wherein the catalytically active components precipitated are salts of a metal selected from transition groups VIII and IB of the Periodic Table.
- 10 3. (currently amended) A process as claimed in claim 1 ~~the preceding claim~~, wherein the metal salts are basic salts which are sparingly soluble or insoluble in water.
4. (currently amended) A process as claimed in claim 2 ~~either of the two preceding claims~~, wherein the salts are oxides, hydrated oxides, hydroxides, carbonates and/or
15 hydrogencarbonates.
5. (currently amended) A process as claimed in claim 2 ~~any of claims 2 to 4~~, wherein the metal is selected from the group consisting of Fe, Co, Ni, Ru, Rh, Pd, Pt and Cu.
- 20 6. (currently amended) A process as claimed in claim 2 ~~any of claims 2 to 4~~, wherein the metal is selected from the group consisting of Cu, Ni and Co.
7. (currently amended) A process as claimed in claim 1 ~~any of the preceding claims~~, wherein the catalytically active composition of the catalyst before treatment with hydrogen
25 comprises from 20 to 85% by weight of oxygen-containing compounds of zirconium, calculated as ZrO_2 , from 1 to 30% by weight of oxygen-containing compounds of copper, calculated as CuO , and from 14 to 70% by weight of oxygen-containing compounds of nickel, calculated as NiO .
- 30 8. (currently amended) A process as claimed in claim 1 ~~any of the preceding claims~~, wherein the catalytically active composition of the catalyst before treatment with hydrogen comprises from 20 to 65% by weight of oxygen-containing compounds of zirconium, calculated as ZrO_2 , from 1 to 30% by weight of oxygen-containing compounds of copper, calculated as CuO , from 15 to 50% by weight of oxygen-containing compounds of nickel,
35 calculated as NiO , and from 15 to 50% by weight of oxygen-containing compounds of cobalt, calculated as CoO .
9. (currently amended) A process as claimed in claim 5 ~~any of claims 5 to 8~~, wherein the molar ratio of nickel to copper is greater than 1.

10. (currently amended) A process as claimed in claim 1 ~~any of the preceding claims~~, wherein the monoclinic, tetragonal or cubic zirconium dioxide contains one or more oxides of metals of transition groups IIIB or main group IIA of the Periodic Table.
- 5 11. (currently amended) A process as claimed in claim 1 ~~any of the preceding claims~~, wherein the hydrogenation is carried out at from 20 to 300°C.
12. (currently amended) A process as claimed in claim 1 ~~any of the preceding claims~~, wherein the hydrogenation is carried out in the gas/liquid phase at absolute pressures of from 1 to
10 320 bar or in the gas phase at pressures of from 1 to 100 bar.
13. (currently amended) A process as claimed in claim 1 ~~any of the preceding claims~~, wherein the unsaturated group is an aliphatic CC double bond or CN double bond.
- 15 14. (currently amended) A process as claimed in claim 1 ~~any of claims 1 to 12~~, wherein the unsaturated group is an aliphatic CC triple bond or CN triple bond.
15. (currently amended) A process as claimed in claim 1 ~~any of claims 1 to 12~~, wherein the aliphatically unsaturated group is an aldehyde group or keto group.
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16. (currently amended) A process as claimed in claim 1 ~~any of claims 1 to 12~~ for preparing a secondary amine, wherein the aliphatically unsaturated group is a nitrile group and a reaction with a primary amine is carried out.
- 25 17. (currently amended) A process as claimed in claim 1 ~~any of claims 1 to 12~~ for preparing a tertiary amine, wherein the aliphatically unsaturated group is a nitrile group and a reaction with a secondary amine is carried out.
18. (canceled)
- 30 19. (canceled)